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1. N152-081: Synthesis and Realization of Broadband Magnetic Flux Channel Antennas

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Significant advances have been made recently in the development of magnetic antennas. These antennas are magnetic duals of electric antennas, which allow them to be mounted directly on an aircraft surface. No frequency-dependent backing-cavities are required, which allows true frequency-independent operations. Flux channels in the form of magnetic rings have been shown to replace vertical elements ...

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2. N152-082: Design and Produce Millimeter Wave Dipole Chaff with High Radar Cross Section

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current aircraft radio frequency (RF) chaff is made from aluminum coated glass filaments produced in a continuous strand and then cut to lengths that achieve the desired resonance at frequencies in the 2-18 GHz band. The filaments require a slip coating to prevent end welding of fibers when cut, and to minimize clumping when ejected. The typical chaff cartridge can contain millions of these coated ...

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3. N152-083: Synthetic Aperture Radar Approaches for Small Maritime Target Detection and Discrimination

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Traditionally SAR has been used to provide imagery of fixed structures on land. Objects moving in the scene were unfocused and generally not of value. For large vessels at sea in relatively calm conditions, some advanced focusing algorithms are able to provide high quality imagery but are not useful for small vessels with very dynamic movements. For maritime environments, the community has relied ...

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4. N152-084: Test and Certification Techniques for Autonomous Guidance and Navigation Algorithms for Navy Air Vehicle Missions

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Many advanced autonomous guidance and navigation algorithms capable of dynamic route re-planning have been developed. The application of such algorithms to Unmanned Air System (UAS) missions has remained limited. This limited application results from multiple factors; however, the greatest obstacle is airworthiness certification. The development of certification methods for these algorithms remain ...

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5. MDA15-001: Advanced Cognition Processing and Algorithms for Improved Identification

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Fixed measurements, features, and classifiers preclude systems from changing decision logic based on new information collected during an engagement, since tactical operational environments are often different from those used to collect or generate sample data. This potentially causes sensor bias thus ultimately impacts object classification. In addition, the sample data may vary form the actual da ...

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6. MDA15-002: Kinematic Reach/Containment

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Seek innovative improvements and creative applications of mature product and material technologies that can address increased kinematic performance and containment. Reducing mass while maintaining or increasing performance (more divert delta V or more efficient use of packaged delta V) will increase the kinematic reach and containment of the vehicle. These innovations can range from light weight r ...

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7. MDA15-003: System Communications

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

As new missile defense CONOPS are developed, the requirements placed on weapon data links will increase. Lower latencies and higher data rates will be needed as weapons become more agile, targeting error requirements become tighter, and the need for real time data become greater. In order to support future network communications, innovative concepts and technologies are needed to develop mitigatio ...

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8. MDA15-004: Lethality Enhancement

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The topic will study the incorporation of innovative reactive materials into a kinetic warhead to increase lethality. Emphasis will be placed on reactive materials that would achieve high reaction temperatures (>4000K) and generate high amounts of chemical energy (>2kcal/g) on impact. The need exists to develop and test reactive materials with varying densities from 1 g/cm3 to 10 g/cm3 as substitu ...

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9. MDA15-005: Gaming Trainer

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Several missile defense training systems exist to assist the Warfighter in learning and becoming operationally proficient with the system. This topic seeks to take this a step further by leveraging gaming technologies to determine critical areas of performance and to also design a wrapper to encourage the users to "play" the system, exercising those critical components to refine performance. Model ...

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10. MDA15-006: Command and Control Human-to-Machine Interface

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Command and control human-to-machine interface is critical to overall missile defense system performance due to human decisions and interactions associated with command and control systems. Recent advances in virtual reality, stereo-graphics, touch screen interfaces, and automated decision aides have the potential to revolutionize how Warfighters interact with command and control systems by provid ...

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